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SCREENING SITE INSPECTION REPORT
FOR
LAKE SALVAGE CO.
CHICAGO, ILLINOIS
U.S. EPA ID: ILD076875285
SS ID: NONE
TDD: F05-8901-015
PAN: FIL0673SB

EPA

HAZARDOUS
SITE
EVALUATION
DIVISION

Field Investigation Team Zone II

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68-01-734

ecology and environment, inc.

International Specialists in the Environment

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JUNE 17, 1991

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Lake Salvage Co. (LSC) site under contract number 68-01-7347.

The site was initially discovered on April 19, 1987, when the Illinois Environmental Protection Agency (IEPA) conducted an inspection of the on-site facility as part of a routine incinerator study (U.S. EPA 1988a).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Gary L. Reside of IEPA and is dated September 6, 1988 (U.S. EPA 1988a).

FIT prepared an SSI work plan for the LSC site under technical directive document (TDD) F05-8901-015, issued on January 20, 1989. The SSI work plan was approved by U.S. EPA on March 21, 1990. The SSI of the site was conducted on July 11, 1990, under amended TDD F05-8901-015, issued on March 21, 1990.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of seven soil samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for

> the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgment factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

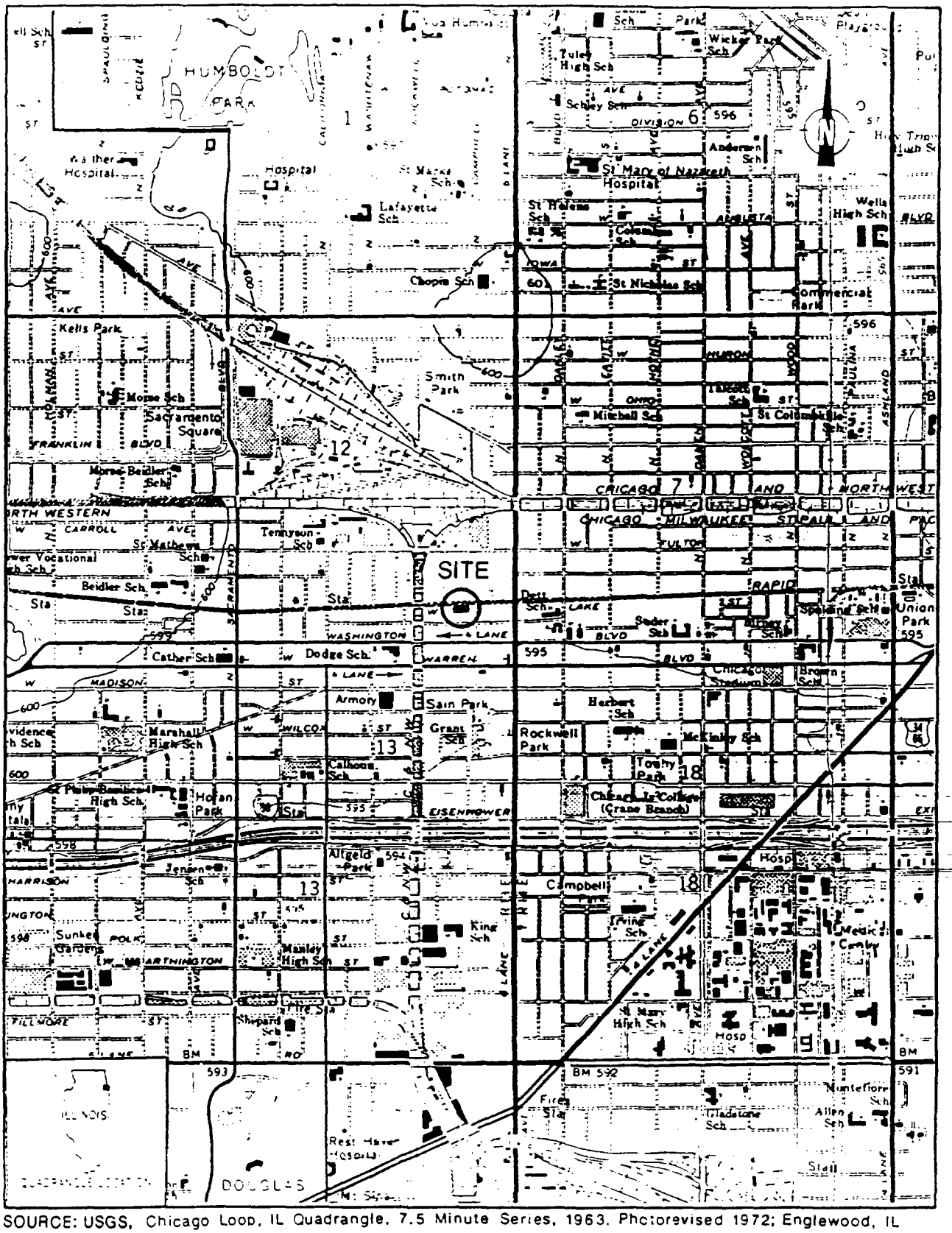
2.2 SITE DESCRIPTION

The LSC site is an inactive scrap metal yard and wire reclamation facility. The LSC site includes one building and two courtyards on an approximately 1/2-acre parcel of land at 2527 West Lake Street, in the city of Chicago, Cook County, Illinois (NW1/4SE1/4SE1/4 sec. 12, T.39N. R.13E.) (see Figure 2-1 for site location). The site is located in a primarily residential area with several small industries located nearby. The site is located 2 1/2 miles west of the Chicago River and 4 miles west of Lake Michigan.

A 4-mile radius map of the LSC site is provided in Appendix A.

2.3 SITE HISTORY

The LSC site is an inactive scrap metal yard and wire reclamation facility owned by Alex Simkin, Edward Simkin, and Irwin Simkin. Lake Salvage Company has existed on the site since the 1950s. The Simkins owned and operated the on-site facility since the company's beginning, but did not own the property on which the LSC site is situated until December 30, 1983, when they bought the site property from Mary Walker Hayes. The site property had been willed to Mary Walker Hayes by the



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SCALE
0 0.5 1 MILE

FIGURE 2-1 SITE LOCATION

late William H. Suchier. The date of property transfer from Suchier to Hayes is not known. A laundromat existed on-site prior to 1950 (Simkin 1990).

Lake Salvage Company began operating as a scrap metal yard in the 1950s. The operations consisted of the purchase, separation, and resale of various grades of scrap metals (Simkin 1990). On July 29, 1974, Lake Salvage Company applied for a construction permit from IEPA to build an incinerator for the recovery of copper from copper-bearing scrap. The permit for construction was granted by IEPA's Division of Air Pollution Control on August 26, 1974 (U.S. EPA 1988a).

In 1974, a model RCF 8001 incinerator was constructed on-site. In the first step of the incineration process, heavy cables and house wires were placed into the primary chamber of the incinerator, where they were ignited by natural gas and their insulation removed. The gas given off from the primary chamber flowed to the secondary chamber. The incinerator was equipped with a water spray located between the primary and secondary chambers to cool the gas and to help remove fly ash particles from inside the incinerator. Following the incineration of the insulation on the cables and wires, the wires were removed from the primary chamber and stored on-site. After removal from the primary and secondary chambers, the fly ash was disposed of as general refuse at a municipal landfill (U.S. EPA 1988a).

Lake Salvage Company contracted Commercial Testing and Engineering Company, of Chicago, Illinois, to conduct an emission study of its facility on December 2, 1975, as part of permitting requirements at the site. Three emission tests were performed on the RCF 8001 incinerator. The results from two of the tests indicated that emissions were below the state-set standards. The third test indicated that emissions were slightly above the standard of 0.10 grams/standard cubic foot adjusted to 12% carbon dioxide waste (Boger and Silloriquez 1975). Upon review of the emission test results, IEPA denied Lake Salvage Company an operating permit for its incinerator because of the failure of all tests to register emissions below state-set standards (U.S. EPA 1988a).

Lake Salvage Company personnel discovered that during the emission tests one of the secondary burners had been malfunctioning. This burner was subsequently replaced. The company also installed an additional

burner in the incinerator stack at the request of IEPA. With these alterations to the incinerator completed, Lake Salvage Company requested that IEPA reconsider its permit application (Simkin 1976). IEPA granted Lake Salvage Company an operating permit for its RCF 8001 incinerator on August 11, 1976, with an expiration date of July 28, 1981. The permit was renewed on March 16, 1981, and April 23, 1986 (U.S. EPA 1988a). A second incinerator was installed at the LSC site, but the date of installation is not known (Simkin 1990).

In September 1986, Lake Salvage Company closed because of a lack of business. The incinerator was partly dismantled, and access to the site was restricted by the fence that surrounds the entire site (Simkin 1990).

On April 15, 1987, IEPA collected ash samples from the LSC site as part of an IEPA-commissioned incinerator study. Analysis results of the samples indicated that high levels of 2,3,7,8-tetrachlorodibenzodioxin [2,3,7,8-TCDD] and its isomers were present at the site. In July 1987, IEPA officially withdrew Lake Salvage Company's operating permit for its RCF 8001 incinerator. On August 9, 1988, IEPA conducted a preliminary assessment of the LSC site to gain additional information on the status of the site (U.S. EPA 1988a). No known regulatory or enforcement actions are currently being taken by IEPA.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the LSC site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exception. FIT was directed by the U.S. EPA Central Regional Laboratory (CRL) to collect a potential background soil sample for Special Analytical Services (SAS) analysis. This sample was to be collected in addition to the potential background sample for Route Analytical Services (RAS). The additional potential background soil sample was sent to CRL along with the other SAS samples collected.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Lake Salvage site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Cortney Schmidt, FIT team leader, and FIT team members Mike McAteer and Tom Kouris conducted an interview with Laurie R. Bain and Mike Bozikowski, Director of Services, Central Region, and Field Project Representative, respectively, both of McCrone Environmental Services, Inc., Chicago, Illinois, environmental consultants for Lake Salvage Company.

The interview was conducted on July 11, 1990, at 9:30 a.m. at the Burger King restaurant located on the northeast corner of Chicago and Western Avenues in Chicago, Illinois. The interview questions were

recorded by Bozikowski and then forwarded to site owner Edward Simkin. Simkin mailed the answers to the questions to FIT. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the LSC site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began on July 11, 1990, at 11:00 a.m., and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Bozikowski, Bain, and Edward Simkin during the reconnaissance inspection.

Reconnaissance Inspection Observations. The LSC site is located in a mixed residential and industrial area of Chicago, Illinois. Lake Street forms the site's northern border. A Chicago Transit Authority (CTA) elevated train runs east-west above Lake Street. An auto salvage yard is located to the east of the site; another is located to the west. An alley, a two-story apartment complex, and a vacant lot are located south of the site (see Figure 3-1 for site features).

Access to the site is through a locked gate at the site's entrance off Lake Street. The perimeter of the site is completely fenced; however, FIT observed two holes in the fence on the east and southeast sides of the site. The topography of the LSC site is flat, and the site is concrete covered. There is one on-site building.

In the north-central area of the site is a brick building that appeared to have once been used as an office. This building acts as the divider between the east and west courtyard areas. The west courtyard is partially roofed and contained an aboveground tank and approximately 20 empty drums. The east courtyard contained a loading dock, scrap wood, scattered debris, and approximately 70 drums. A portion of these 70 drums were filled with what appeared to be the remains of incinerator ash. The drums were not covered. Scattered debris, including lumber,

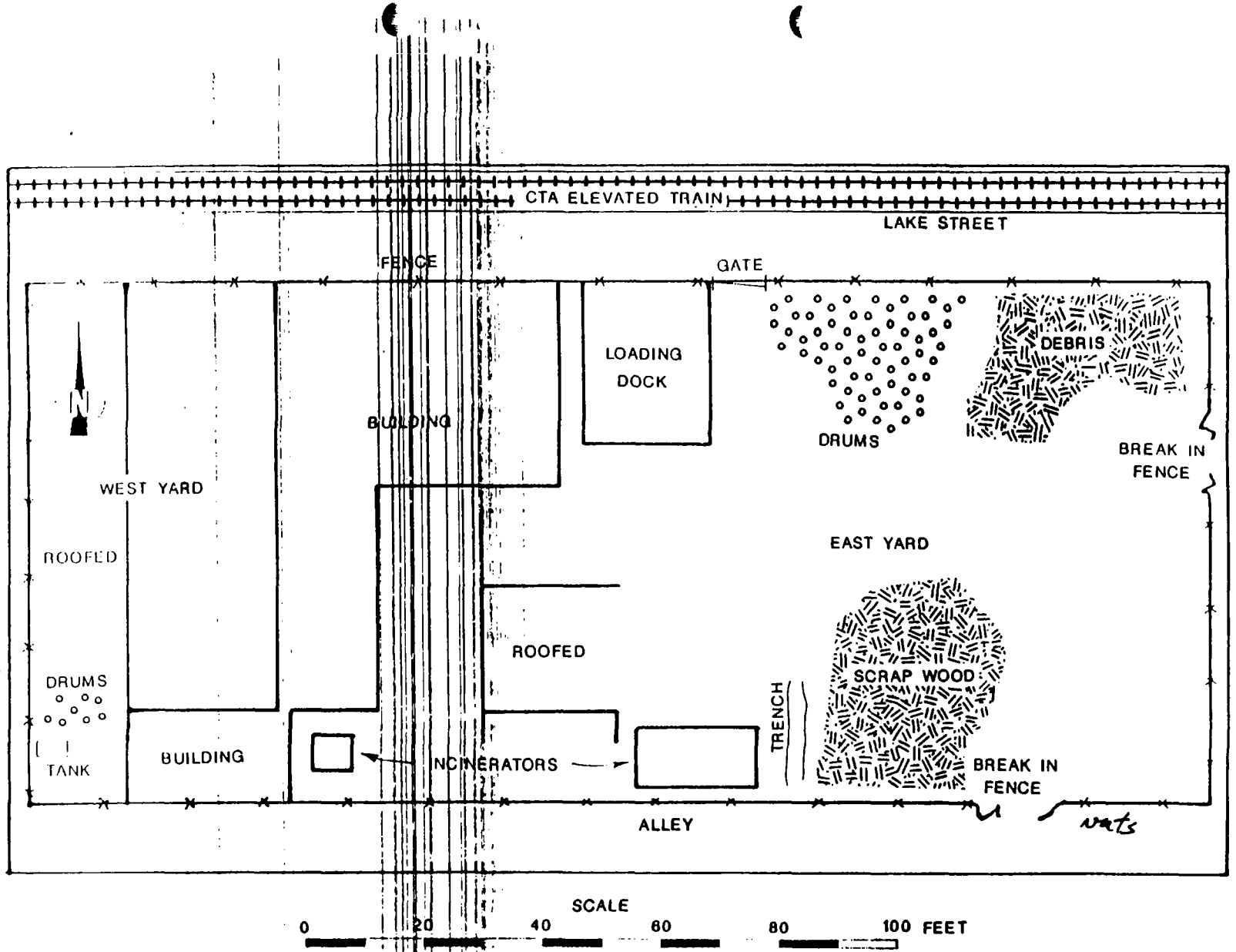


FIGURE 3-1 SITE FEATURES

was observed in both courtyards. A small, concrete-covered trench is located immediately west of the scrap wood pile. FIT observed soil and incinerator ash in this trench. The soil was mottled in color.

Two inoperable incinerators were located in the southern portion of the site. The western incinerator was located approximately 50 feet east of the western site boundary and 10 feet north of the southern boundary. The eastern incinerator is located approximately 70 feet west of the eastern site boundary and 5 feet north of the southern boundary.

FIT photographs from the SSI of the LSC site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds, Target Analyte List (TAL) analytes, or dioxin and its isomers were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On July 11, 1990, FIT collected seven soil samples. Three of the soil samples (two surface soil samples and one potential background surface soil sample) were submitted for analysis by RAS. The RAS samples were analyzed for concentrations of TCL compounds and TAL analytes. The remaining four samples (three surface soil samples and one potential background surface soil sample) were submitted for analysis by SAS. The SAS samples were analyzed for dioxins or its isomers. Site representatives accepted offered portions of FIT-collected on-site samples.

Soil Sampling Procedures. Three soil samples, designated S1 through S3, were collected to be submitted to RAS. RAS surface soil sample S2 was collected from the ditch east of the eastern incinerator and west of the scrap wood pile (see Figure 3-2 for on-site soil sampling locations). Sample S2 was collected at a depth of 6 to 8 inches from soil that was mottled in color and contained some incinerator ash. RAS surface soil sample S3 was collected from an area between the site fence and the alley. Sample S3 was collected from a sampling location that was as close as possible to the eastern incinerator, in an attempt to characterize any particulate fallout from the incinerator's smokestack. Sample S3 was collected at a depth of 6 to 10 inches.

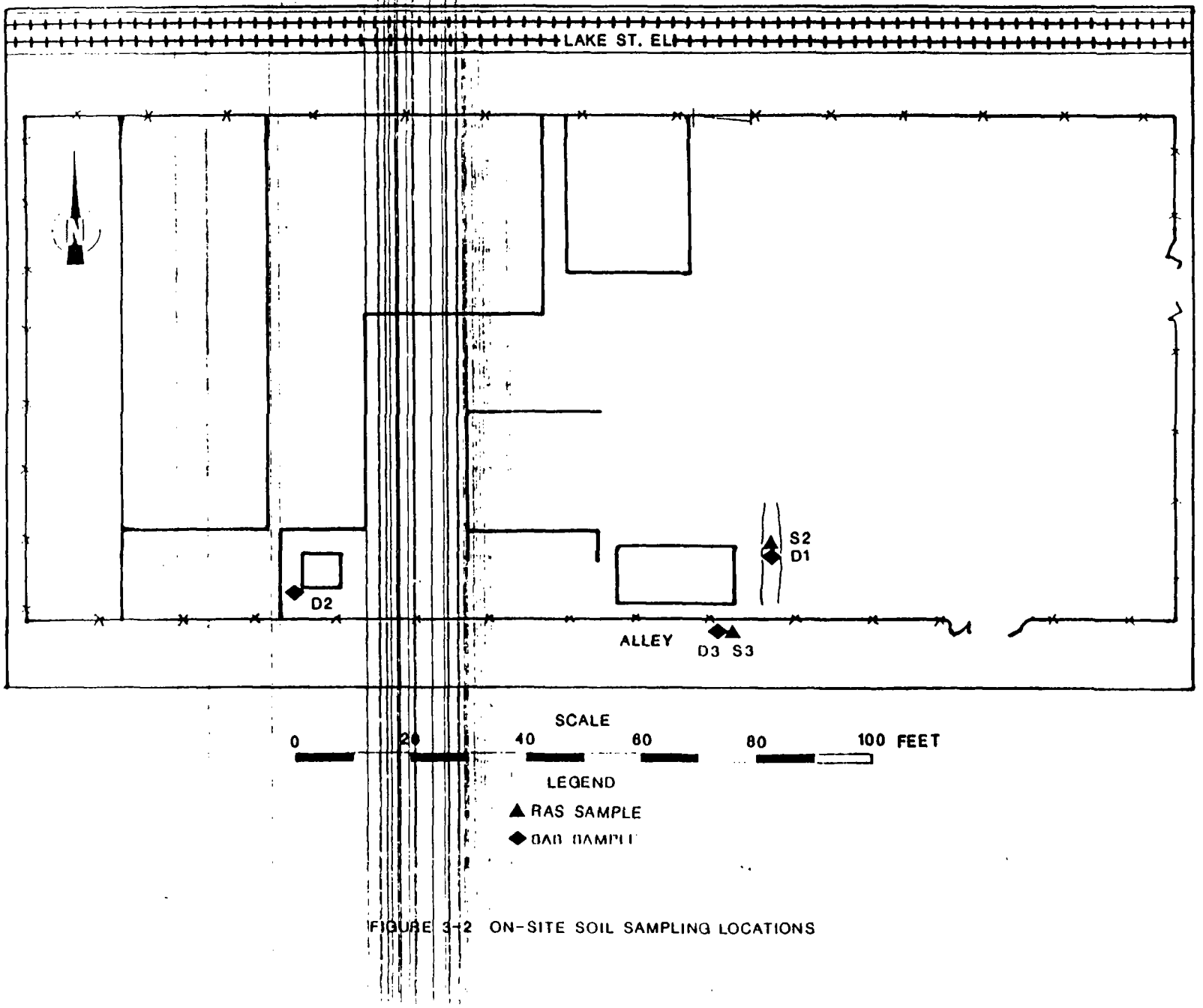


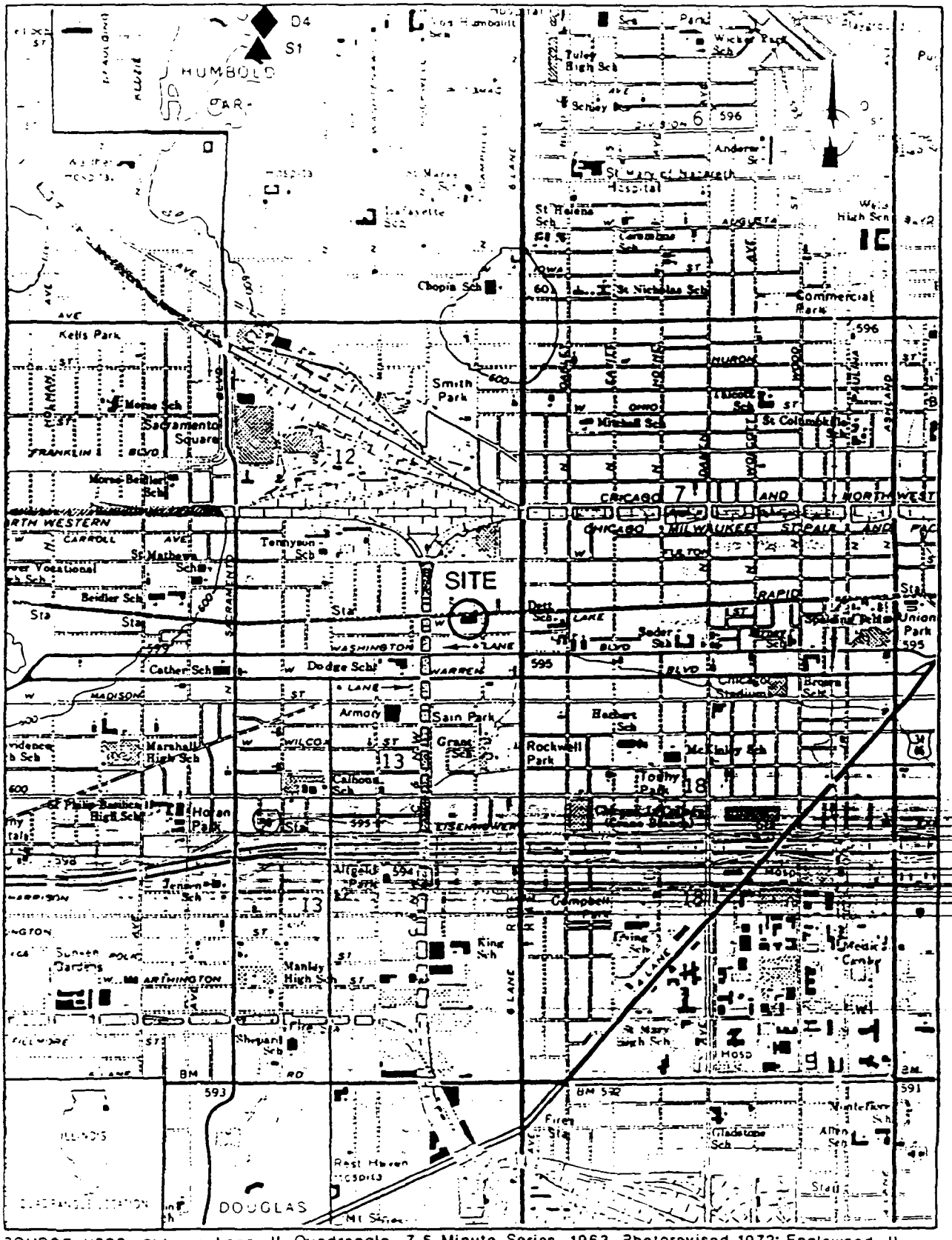
FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS

Potential background RAS surface soil sample S1 was collected off-site at Humbolt Park, which is approximately 3/4 miles northwest of the site (see Figure 3-3 for off-site soil sampling locations). Sample S1 was collected at a depth of 6 to 8 inches from a sampling location southeast of a boathouse parking lot. FIT selected the RAS potential background soil sampling location in order to characterize soil constituents in the area of the site.

All RAS soil samples were collected using stainless steel spoons and aluminum pans. RAS samples S1 and S3 were collected using a posthole digger to penetrate the surface and loosen the soil. All the soil samples were transferred to aluminum pans and then to sample bottles using a steel spoon. The volatile organic analysis (VOA) portions were placed directly into sample bottles using a steel spoon (E & E 1987). Standard E & E decontamination procedures were adhered to during the collection of all RAS soil samples. The procedures included the scrubbing of all equipment (e.g., posthole digger, stainless steel spoons, and aluminum pans) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All RAS soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

Four soil samples, designated D1 through D4, were collected to be submitted to SAS for screening for dioxin and its isomers. The sampling locations were selected because of the presence of ash in these areas and the sampling locations' proximity to the incinerators.

SAS surface soil sample D1 was collected at a depth of 6 to 8 inches from the ditch located east of the eastern incinerator. This was the same sampling location from which soil sample S2 was collected. SAS surface soil sample D2 was collected at a depth of 4 inches from the base of the western smokestack of the western incinerator. This sample was a mixture of soil and ash. SAS surface soil sample D3 was collected at a depth of 6 to 10 inches from a sampling location between the site fence and the alley. This sample was collected as close as possible to the eastern incinerator's smokestack, in an attempt to characterize fallout from this smokestack. Sample D3 was collected from the same sampling location as RAS soil sample S3. Potential background SAS



SOURCE: USGS, Chicago Loop, IL Quadrangle, 7.5 Minute Series, 1963, Photorevised 1972; Englewood, IL Quadrangle, 7.5 Minute Series, 1963, Photorevised 1972 and 1980.

SCALE
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LEGEND
▲ RAS SAMPLE ◆ SAS SAMPLE

ecology and environment

FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATIONS

surface soil sample D4 was collected at a depth of 6 to 8 inches from a sampling location in Humbolt Park, southeast of the boathouse parking lot (see Figure 3-3 for off-site soil sampling locations). This sample was collected from the same location as RAS soil sample S1.

All SAS soil samples were collected using a stainless steel spoon to break up the soil surface and then to transfer the sample to an aluminum pan. The same spoon was then used to transfer the sample material to the sample bottles (E & E 1987). A posthole digger was used for SAS samples D3 and D4 to break up the soil surface.

Decontamination procedures were as follows. For all equipment, an initial wash was performed, using Alconox detergent and distilled water, followed by a triple rinse with distilled water. Any equipment that was reused at the site (e.g., the posthole digger) required a second rinse with denatured anhydrous ethyl alcohol.

All SAS samples were packaged as high hazard samples. Each sample bottle was wiped with an Alconox and distilled water solution, and triple-rinsed with distilled water. Standard U.S. EPA sampling labels and tags were then affixed to each bottle, and each of the bottles was placed into a separate paint can. The cans were placed in coolers and packed with vermiculite. As directed by U.S. EPA, standard chain-of-custody procedures were followed (E & E 1987).

As directed by U.S. EPA, all soil samples to be analyzed for TCL compounds, TAL analytes, and dioxin and its isomers were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected RAS and SAS soil samples. All RAS samples were analyzed for TCL compounds and TAL analytes, including volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Holding times for the VOA portions of the RAS samples were exceeded at the laboratory. The VOM results are therefore not presented in this report. All SAS samples were analyzed for dioxins or its isomers. Complete chemical analysis results of FIT-collected RAS and SAS soil samples are provided in Table 4-1.

Quantitation/detection limits used in the analysis of RAS and SAS soil samples are provided in Appendix D.

The analytical data for the chemical analysis of all RAS and SAS soil samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number S1	S2	S3	D1	D2	D3	D4
Date	7/11/90	7/11/90	7/11/90	7/11/90	7/11/90	7/11/90	7/11/90
Time	1500	1200	1240	1200	1215	1240	1500
SAS Number	-	-	-	5537E-01	5537E-02	5537E-03	5537E-04
CLP Organic Traffic Report Number	ELD63	ELD64	ELD65	-	-	-	-
CLP Inorganic Traffic Report Number	MELP95	MELP96	MELP97	-	-	-	-
Compound Detected (values in µg/kg)							
Semivolatile Organics							
2-methylnaphthalene	--	--	110J	-	-	-	-
hexachlorobenzene	--	--	970J	-	-	-	-
phenanthrene	530J	--	1,700	-	-	-	-
anthracene	89J	--	370J	-	-	-	-
di-n-butylphthalate	320J	--	380J	-	-	-	-
fluoranthene	940	--	3,300	-	-	-	-
pyrene	820	--	2,900	-	-	-	-
benzo[a]anthracene	420J	--	1,800	-	-	-	-
chrysene	560J	--	2,200	-	-	-	-
bis(2-ethylhexyl)phthalate	520J	870J	1,200	-	-	-	-
benzo[b]fluoranthene	520J	--	3,000	-	-	-	-
benzo[k]fluoranthene	350J	--	1,400	-	-	-	-
benzo[a]pyrene	430J	--	1,700	-	-	-	-
indeno[1,2,3-cd]pyrene	210J	--	420J	-	-	-	-
dibenzo[a,h]anthracene	220J	--	370J	-	-	-	-
benzo[g,h,i]perylene							
Pesticides/PCBs							
4,4'-DDE	260	--	--	-	-	-	-
Endosulfan II	-	--	490J	-	-	-	-
4,4'-DDD	56	--	--	-	-	-	-

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	D1	D2	D3	D4
4,4'-DDT	440J	--	270J	-	-	-	-
Aroclor 1248	--	--	4,400J	-	-	-	-
Aroclor 1254	--	--	5,200J	-	-	-	-
Dioxin Detected (values in ng/kg)							
2,3,7,8-TCDD	-	-	-	--	158.5	--	--
total tetra-CDD	-	-	-	--	1,475.3	--	--
total penta-CDD	-	-	-	--	595.3	412.5J	--
total hexa-CDD	-	-	-	162.7	3,096.9	1,823J	--
total hepta-CDD	-	-	-	543	12,698	16,520J	127
total octa-CDD	-	-	-	982	23,278	56,420J	407
2,3,7,8-TCDF	-	-	-	708.8	2,474.3	78,096J	21
total tetra-CDF	-	-	-	1,806.4	8,733.4	158,161J	42.4
total penta-CDF	-	-	-	2,793.3	16,144.6	522,674.2J	89.9
total hexa-CDF	-	-	-	3,047.2	24,553.9	363,314.7J	59.7
total hepta-CDF	-	-	-	3,273	24,248	387,270J	504
total octa-CDF	-	-	-	5,702	40,341	578,337J	60
Analyte Detected (values in mg/kg)							
aluminum	14,000	2,070	12,000	-	-	-	-
antimony	--	17.3NJ	55.6NJ	-	-	-	-
arsenic	14.2	--	16.9B	-	-	-	-
barium	114	52.8	556	-	-	-	-
beryllium	1.3	--	0.77B	-	-	-	-
cadmium	2.6	1.2B	17.8	-	-	-	-
calcium	16,800*J	3,750*J	5,930*J	-	-	-	-
chromium	28.9	10.8	225	-	-	-	-
cobalt	13	150	12B	-	-	-	-
copper	266*J	902*J	12,500*J	-	-	-	-
iron	25,400	--	109,000*	-	-	-	-
lead	253N	639NJ	7,550NJ	-	-	-	-

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	D1	D2	D3	D4
magnesium	10,800*J	456B*J	2,100*J	-	-	-	-
manganese	355N	179NJ	353NJ	-	-	-	-
mercury	0.32	--	0.75	-	-	-	-
nickel	33.1	4.4B	122	-	-	-	-
potassium	2,790	693B	425B	-	-	-	-
selenium	1B	0.58BWJ	2.7	-	-	-	-
sodium	150B	574B	235B	-	-	-	-
thallium	0.57BWJ	--	--	-	-	-	-
vanadium	36.1	3.1B	34.3	-	-	-	-
zinc	230N	960NJ	2,350NJ	-	-	-	-

- Not applicable.
-- Not detected.

NOTE: The VOA portions of the RAS samples were rejected because the sample holding times were exceeded at the laboratory. The VOA results, therefore, are not presented in this report.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the LSC site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

In accordance with the U.S. EPA approved work plan, no groundwater samples were collected during the SSI of the LSC site. No monitoring wells existed at the site. Groundwater flow in the vicinity of the site is believed to be in an easterly direction toward Lake Michigan (see Appendix E for boring logs of the area of the site).

A potential exists for TCL compounds, TAL analytes, and dioxin and its isomers to migrate from the site to groundwater, based on the following information.

- TCL compounds, TAL analytes, and dioxin and its isomers were detected in on-site surface soil samples, including Aroclor 1248 (4,400J µg/kg in sample S3), Aroclor 1254 (5,200J µg/kg in sample S3), cobalt (150 mg/kg in sample S2), and 2,3,7,8-TCDD (158.5 ng/kg in sample D2) (see Table 4-1 for the definition and interpretation of the J qualifier).

- No liners are known to exist beneath the site.

- Incinerator ash was observed to be present on-site in uncovered drums. An IEPA-commissioned incinerator study conducted in 1987 revealed the presence of 2, 3, 7, 8-TCDD and its isomers in on-site incinerator ash (U.S. EPA 1988a).

The potential for TCL compounds, TAL analytes, and dioxin and its isomers detected in on-site soil samples to migrate to groundwater in the vicinity of the site is also based on the following information concerning the geology of the area of the site.

The unconsolidated deposits of the area within a 3-mile radius of the site consist of approximately 50- to 100-foot-thick glacially derived deposits of sand and gravel. Logs of well borings near the site indicate that the glacial drift in the site area is approximately 67 feet thick. The sand and gravel deposits consist of zones of interbedded silts, silty clays, clayey silts, and fine- to medium-grained sands (Willman 1971).

The bedrock beneath these deposits consists of Silurian-age dolomite. The glacial deposits and the dolomite are hydraulically connected and are directly recharged by seepage from precipitation. Therefore, the glacial deposits and the dolomite form the aquifer of concern (AOC). The depth to the AOC in the area of the site is approximately 15 feet (Willman 1971).

Beneath the Silurian dolomite is the Cambrian-Ordovician aquifer, in which the Ironton-Galesville and Glenwood-St. Peter sandstone aquifers are located. The Maquoketa Shale, a relatively impermeable confining bed, separates the AOC from the Cambrian-Ordovician aquifers (Willman 1971).

No groundwater from either the shallow (sand and gravel, dolomite) or deep (sandstone) aquifer is used for any purpose within a 3-mile radius of the site. Because groundwater is not used for any purpose within a 3-mile radius of the site, no potential targets of groundwater contamination exist. Water intakes in Lake Michigan serve the entire city of Chicago (Ludwigs 1988).

5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected during the SSI of the LSC site. Although the Chicago River lies 2.5 miles west of the site and Lake Michigan lies 4 miles west of the site, intervening structures and concrete can be expected to prevent on-site runoff from migrating from the site to the river or lake. The city of Chicago has drinking water intakes in Lake Michigan; however, the intakes are located more than 3 miles from the site. The population potentially affected by surface water runoff from the LSC site is nonexistent.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the LSC. During the reconnaissance inspection, FIT site-entry instruments (HNu, hydrogen cyanide monitor, and explosimeter) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

However, a potential does exist for TCL compounds, TAL analytes, and dioxin and its isomers to migrate from the site via windblown particulates. This potential is based on the following information.

- TAL analytes, TCL compounds, and dioxins and its isomers were detected in on-site surface soil samples.

- There is a lack of vegetation on-site to prevent windblown soil particulates from migrating off-site.

- Incinerator ash is present on-site in uncovered drums. The incinerator ash consists of fine particles and is therefore highly susceptible to windblown migration.

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds, TAL analytes, and dioxin and its isomers to the air is approximately 662,197 persons. The total target population was calculated by multiplying the area of the 4-mile radius

(USGS 1963) by the population density for the city of Chicago (U.S. Bureau of the Census 1982).

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information revieved by FIT, no documentation exists of an incident of fire or explosion at the site. According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information revieved by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds, TAL analytes, or dioxin and its isomers at the LSC site have been documented.

However, a potential exists for persons to come into contact with TCL compounds, TAL analytes, or dioxin and its isomers detected at the LSC site because the site fence was damaged and persons could access the site through the holes in the fence. In addition, soil samples collected from the alley immediately south of the site revealed TCL compounds, TAL analytes, and dioxin and its isomers.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds, TAL analytes, and dioxin and its isomers at the site is 41,387 persons. This population was calculated by multiplying the area of Chicago in a 1-mile radius of the site (USGS 1963) by the population density of the city of Chicago (U.S. Bureau of the Census 1982).

6. REFERENCES

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_____, August 30, 1990, letter, to Cortney Schmidt, E & E, Re: site management practices.

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_____, September 6, 1988a, Potential Hazardous Waste Site Preliminary Assessment, for the LSC site, Chicago, Illinois, prepared by Gary L. Reside, IEPA.

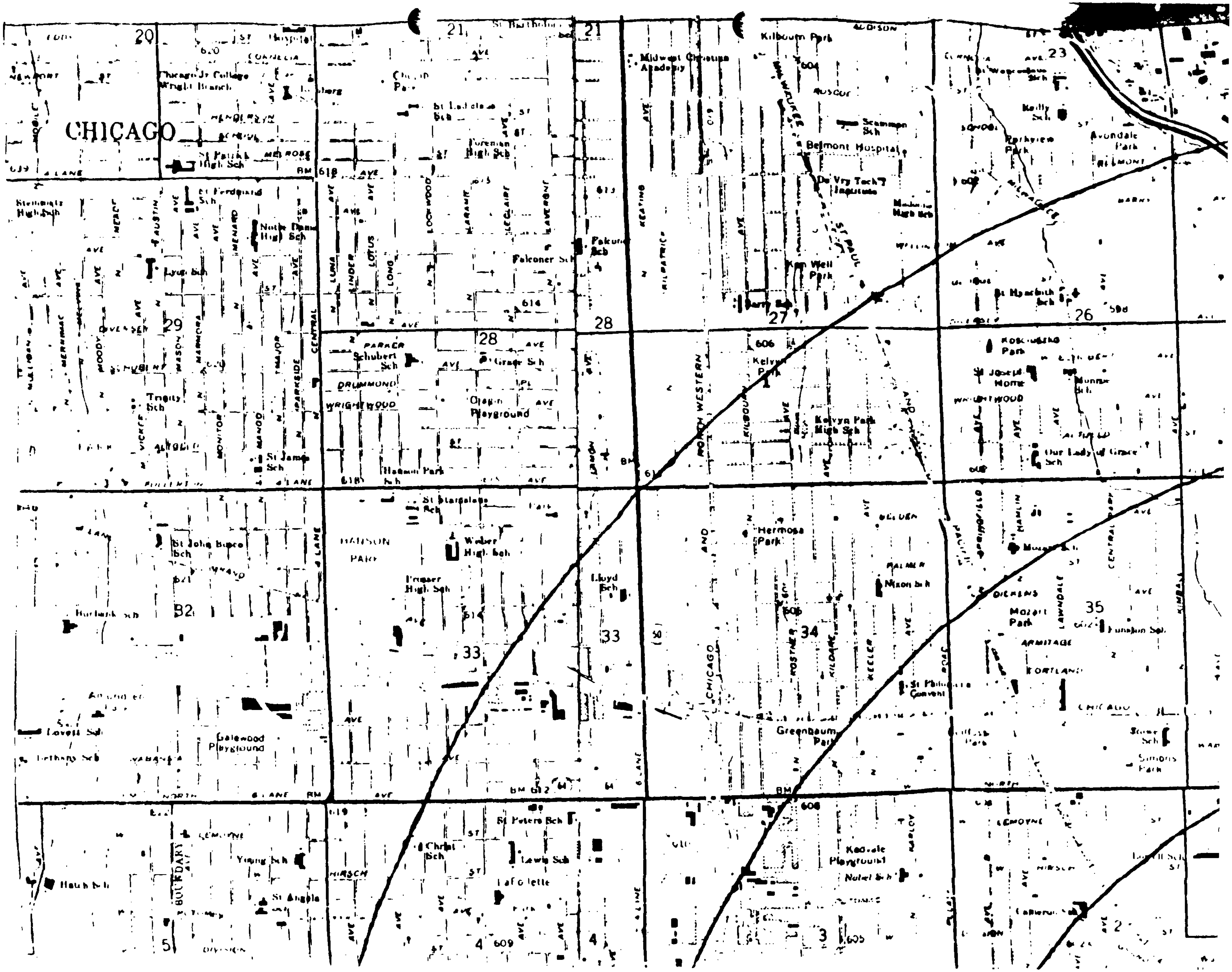
USGS, 1963, photorevised 1972, Chicago Loop, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

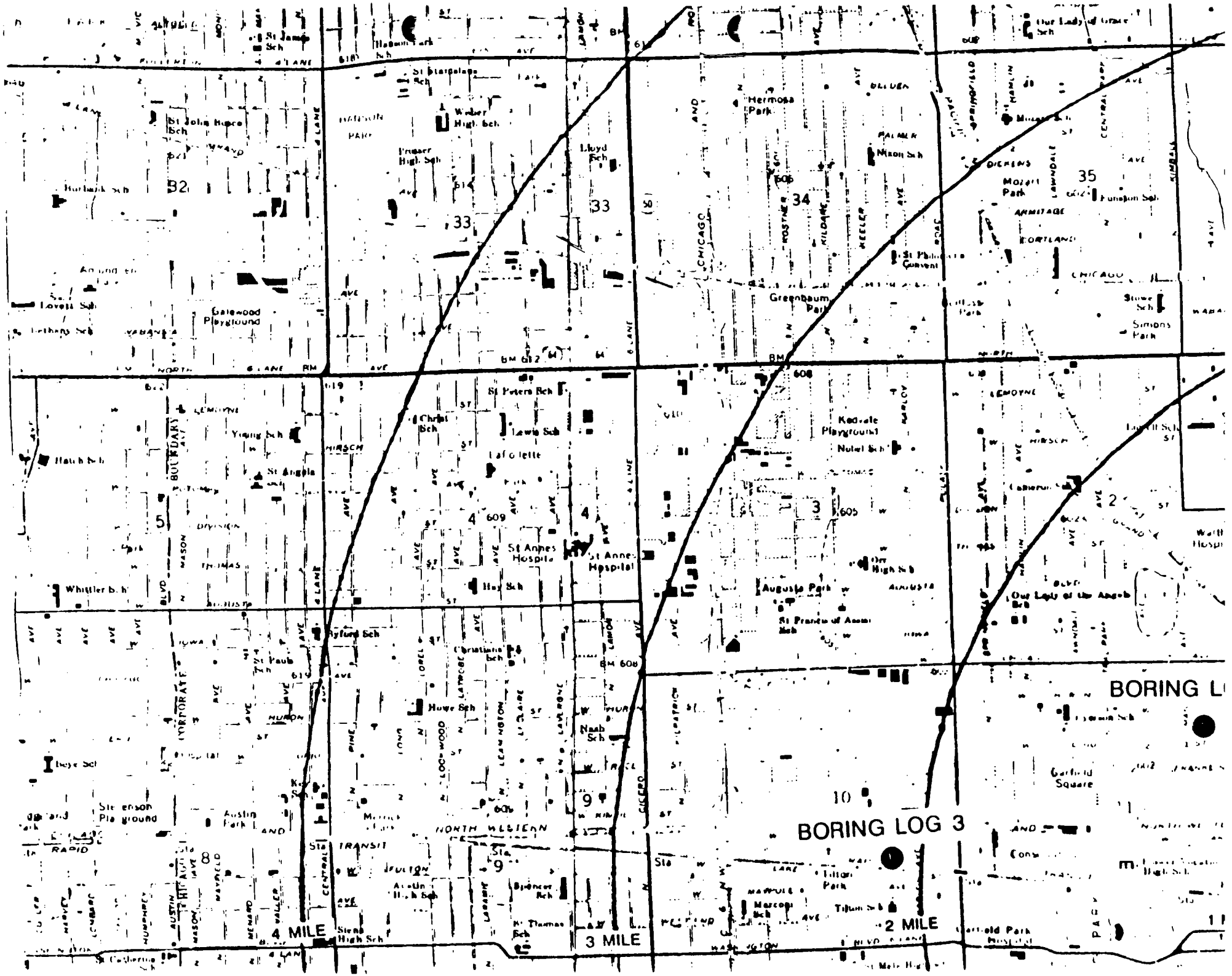
Willman, H. B., 1971, Summary of the Geology of the Chicago Area, Circular 460, Illinois State Geological Survey, Urbana, Illinois.

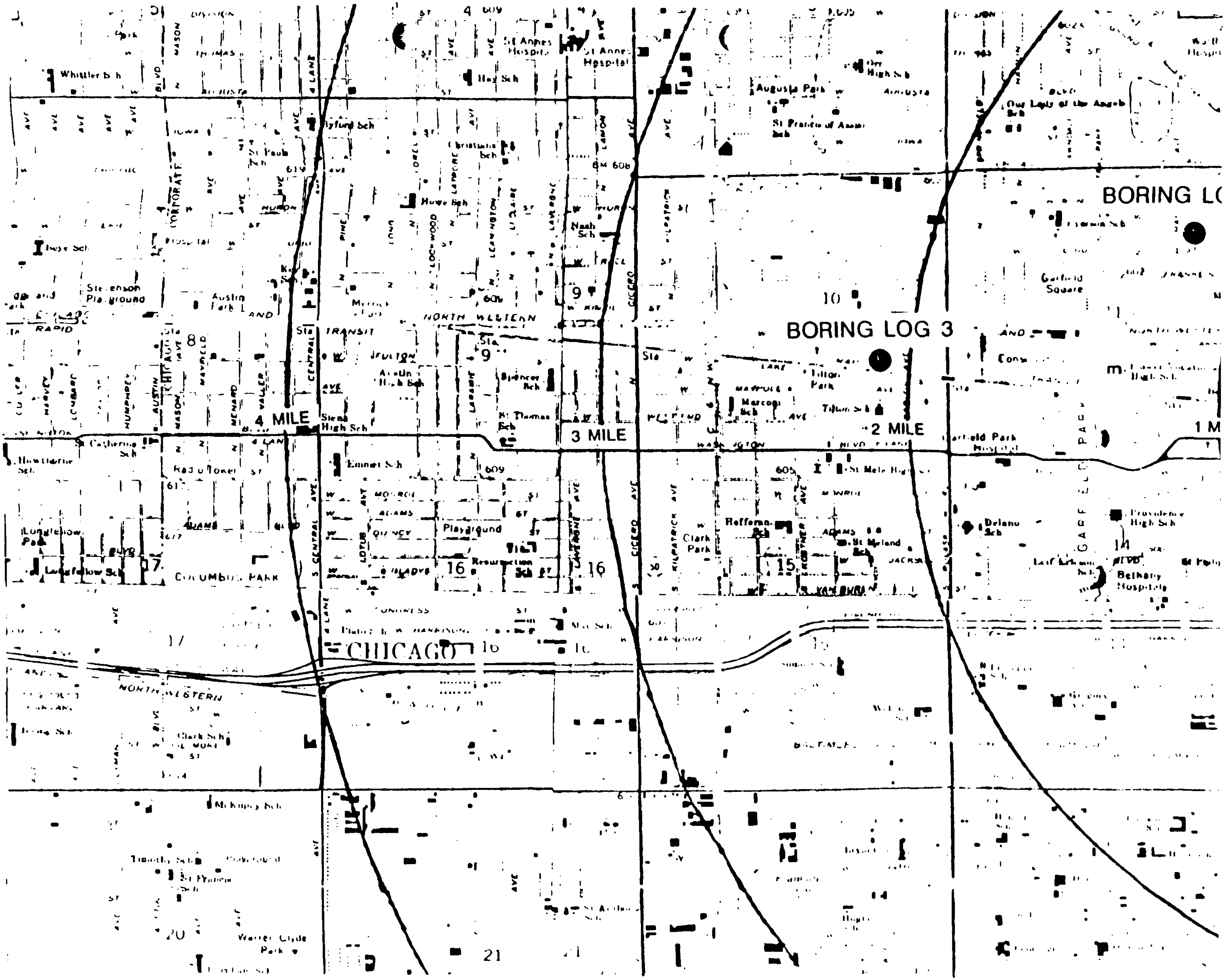
6366:10

APPENDIX A

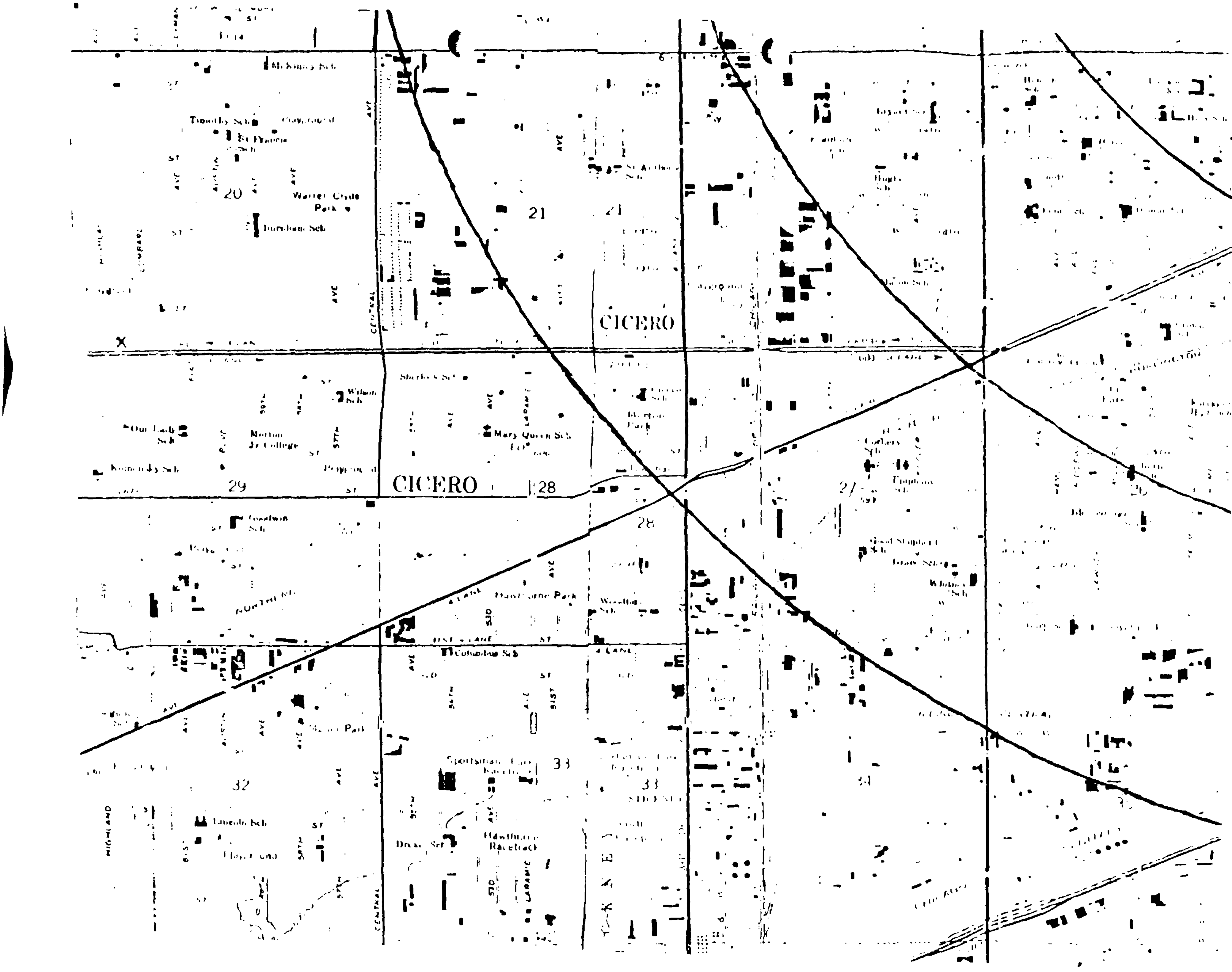
SITE 4-MILE RADIUS MAP

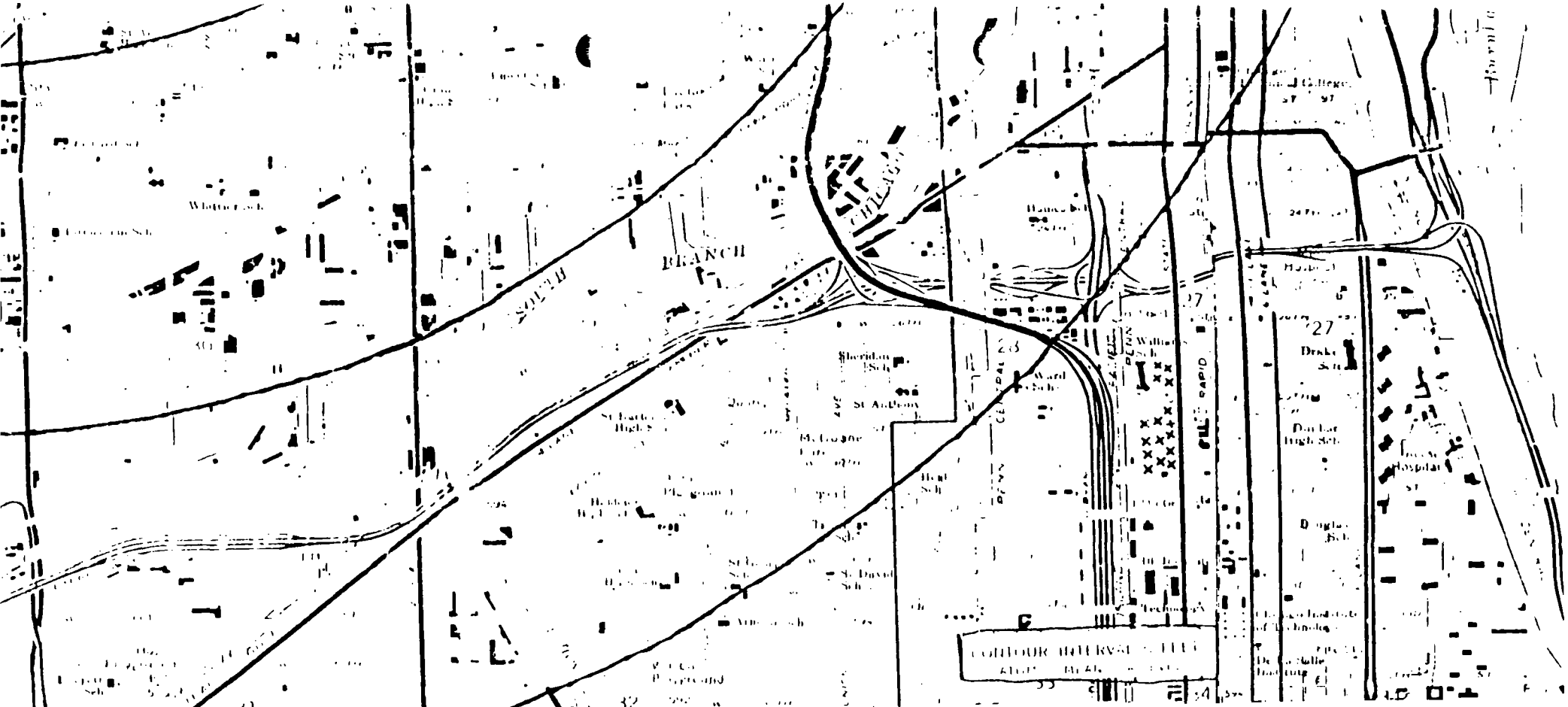

CHICAGO
20
21
23
26
27
28
29
33
34
35
Kilbourn Park
Midwest Christian Academy
Chicago Jr College Wright Branch
Foreman High Sch
St Patrick High Sch
Scammon Sch
Belmont Hospital
De Vry Tech Institute
Avondale Park
Kelly Sch
Parkview Park
Steinmetz High Sch
St Ferdinand Sch
Notre Dame High Sch
Lyon Sch
Falconer Sch
Schubert Sch
Grace Sch
Trinity Sch
Olson Playground
Hanson Park
Kosciuszko Park
St Joseph Home
Kelvyn Park
Kelvyn Park High Sch
Our Lady of Grace Sch
St James Sch
St Stanislaus Sch
St John Bosco Sch
Weber High Sch
Hermosa Park
Lloyd Sch
Nixon Sch
Mozart Park
Mozart Sch
Funston Sch
St Philomena Convent
Greenbaum Park
Galewood Playground
Lovett Sch
Simons Park
St Peters Sch
Christ Sch
Lewis Sch
Young Sch
St Angela
Lafollette
Kedvale Playground
Nobel Sch
Hauch Sch
ADDISON
CORNELIA
ROSCOE
HENDERSON
SCHOOL
MELROSE
BELMONT
PARKER
DRUMMOND
WRIGHTWOOD
FULLERTON
BELDEN
PALMER
DICKENS
ARMITAGE
CORTLAND
CHICAGO
NORTH
LEMOYNE
HIRSCH
DIVISION
BOUNDARY
CENTRAL
NORTH WESTERN
LUNA
LINDER
LOTUS
LONG
LOCKWOOD
LARAMIE
LECLAIRE
LAVERGNE
KEATING
KILPATRICK
KILBOURN
KOSTNER
KILDARE
KEELER
HAMLIN
LAWNDALE
KIMBALL
AUSTIN
MONITOR
MANGO
PARKSIDE


BORING LOG 3
4 MILE
3 MILE
2 MILE



BORING LOG 3
BORING LO
4 MILE
3 MILE
2 MILE
CHICAGO
NORTH WESTERN
TRANSIT
COLUMBUS PARK
Austin Park
Stevenson Playground
Austin High Sch
Emmet Sch
Playground
Resurrection Sch
Spencer Sch
Clark Park
Garfield Square
Garfield Park Hospital
Augusta Park
Bethany Hospitals
Providence High Sch
Delano Sch
St Annes Hospital
Whittler Sch
Longfellow Park
Longfellow Sch
Hay Sch
Howe Sch
Christian Sch
Nash Sch
Tilton Park
Tilton Sch
Marconi Sch
Radio Tower
McKinley Sch
Timothy Sch
Warren Clyde Park
BM 608
CICERO
CENTRAL
LAVERGNE
KILPATRICK
KOSTNER
ADAMS
MONROE
QUINCY


CICERO
CICERO
20
21
28
29
32
33
Timothy Sch
Warren Clyde Park
Burnham Sch
Wilson Sch
Morton Jr College
Mary Queen Sch
Morton Park
Goodwin Sch
Hawthorne Park
Columbus Sch
Lincoln Sch
Hawthorne Racetrack
CENTRAL
LARAMIE
HIGHLAND



ecology and environment, inc.

SITE NAME LAKE SALVAGE

U.S. EPA ID# ILD076875285

USGS TOPOGRAPHIC MAPS:

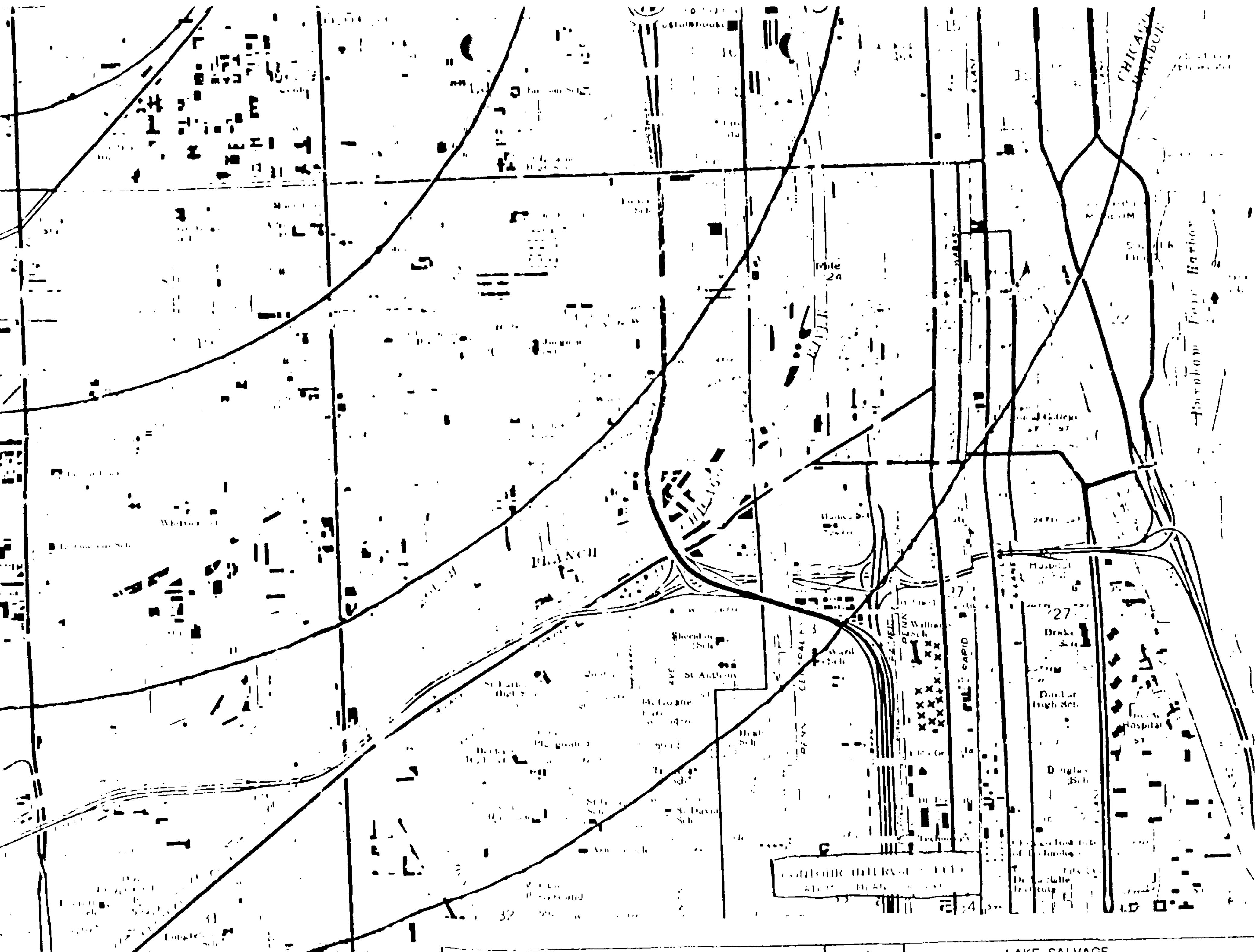
NAME RIVER FOREST, ILL DATE 1963 REVISED 1972	NAME CHICAGO LOOP, ILL DATE 1963 REVISED 1972	NAME DATE REVISED
NAME BERWYN, ILL DATE 1963 REVISED 1972-1980	NAME ENGLEWOOD, ILL DATE 1963 REVISED 1972-1980	NAME JACKSON PARK, ILL-IND DATE 1963 REVISED 1972

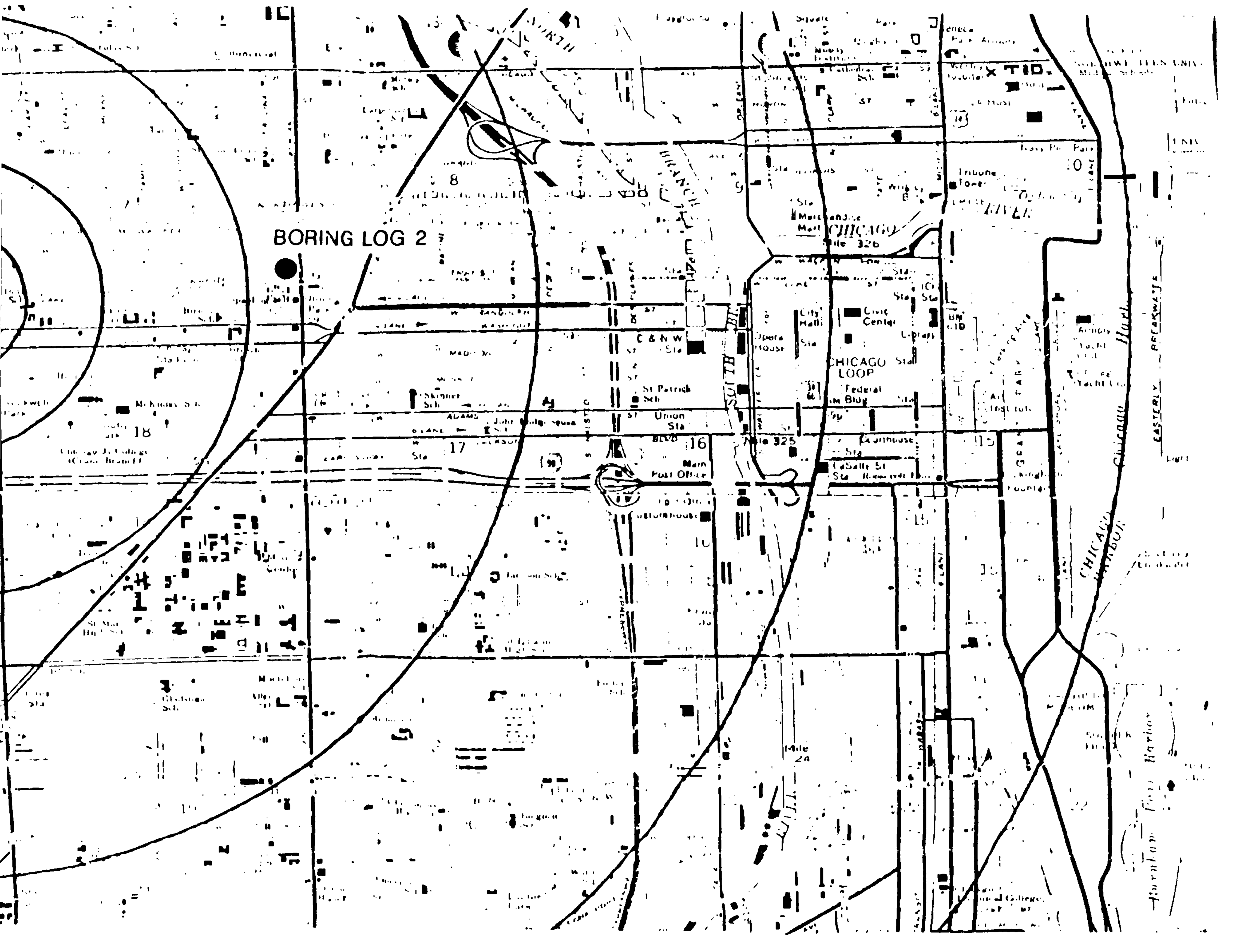
SCALE

0 ½ 1 MILE

ILLINOIS

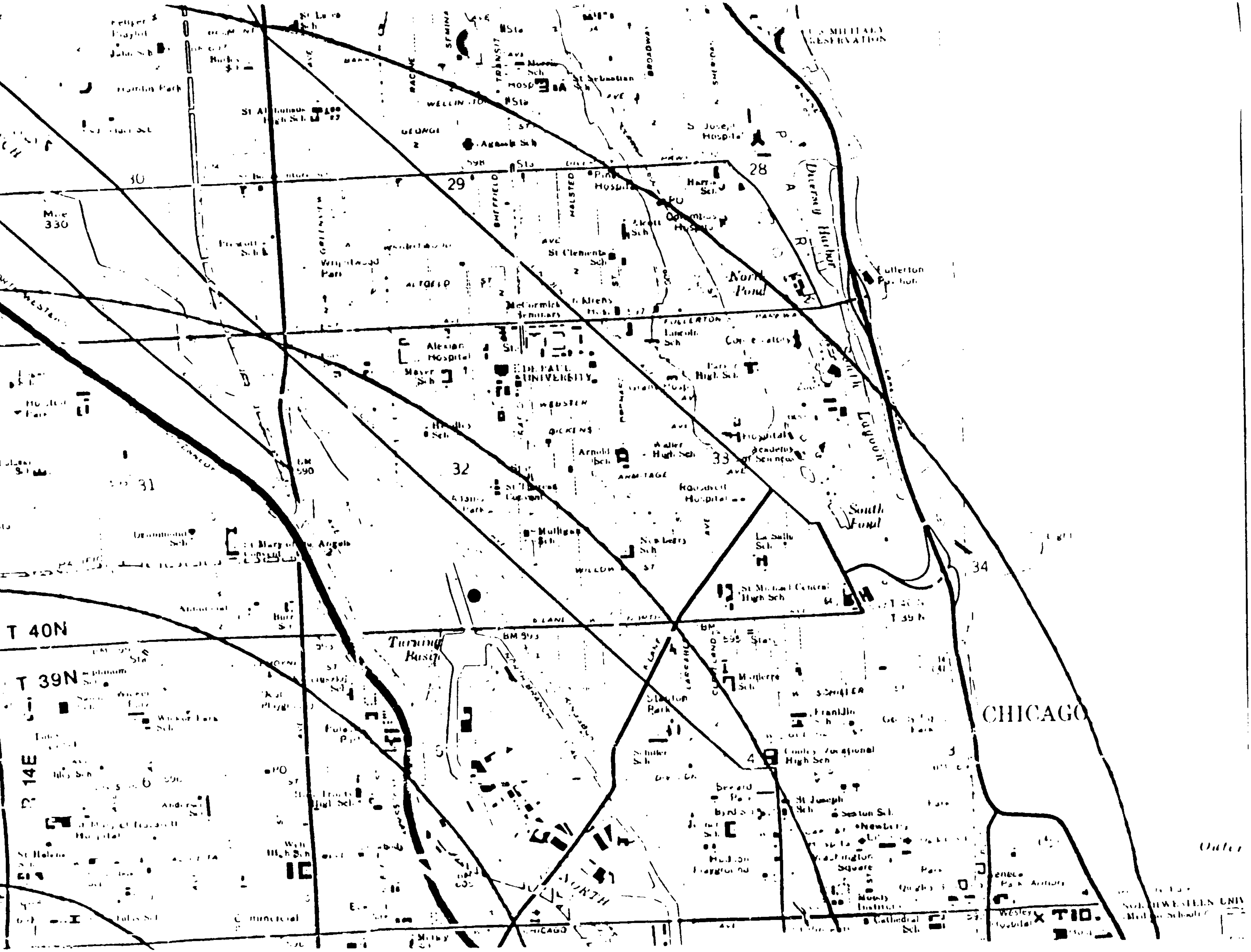
QUADRANGLE LOCA


CHICAGO HARBOR
Mile 24
Hospital
27
Drake Sch
Dunbar High Sch
Douglas Sch
RAPID
LAKE SALVAGE



BORING LOG 2
CHICAGO LOOP
Civic Center
City Hall
Opera House
Federal Bldg
Union Sta
Main Post Office
Merchandise Mart
Tribune Tower
C & N W Sta
LaSalle St Sta
St Patrick Sch
Skinner Sch
Mile 326
Mile 325
Mile 24
CHICAGO
RIVER
CHICAGO HARBOR
EASTERLY BREAKWATER
SOUTH BR
Library
Courthouse
Customhouse
8
9
10
15
16
17
18


T 40N
T 39N
R 14E
CHICAGO
BORING LOG 2


U.S. MILITARY RESERVATION
St Joseph Hospital
28
29
30
Mile 330
St Alphonsus High Sch
Agassiz Sch
WELLINGTON
GEORGE
BROADWAY
HALSTED
SHEFFIELD
Diversey Harbor
Columbus Hospital
Alcott Sch
St Clements Sch
North Pond
Fullerton Pavilion
McCormick Seminary
FULLERTON
Lincoln Sch
Conservatory
Alexian Hospital
DE PAUL UNIVERSITY
WEBSTER
DICKENS
Lagoon
Hospital
Academy of Sciences
Arnold Sch
Waller High Sch
ARMITAGE
31
32
33
34
BM 590
Roosevelt Hospital
South Pond
Mulligan Sch
Newberry Sch
La Salle Sch
WILLOW
St Michael Central High Sch
T 40N
T 39N
R 14E
BM 593
BM 595
Turning Basin
Stanton Park
CHICAGO
Cooley Vocational High Sch
St Joseph Sch
Washington Square
Moody Institute
Wesley Hospital
NORTHWESTERN UNIV
Outer

APPENDIX B

U.S. EPA FORM 2070-13

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D076875285

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Lake Salvage Co.	2527 West Lake				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG. DIST.**
Chicago	IL	60612	Cook	031	7

09 COORDINATES: LATITUDE 41° 53' 00.0" | LONGITUDE 087° 41' 20.0"

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
7 / 11 / 90 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	1976 (BEGINNING YEAR) / 9/86 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ■ B. EPA CONTRACTOR Ecology & Environment Inc. ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Cortney Schmidt	Water Resource Manager	Ecology & Environment (E&E)	(312) 663-9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Cliff Florczak	Chemist	Ecology & Environment	(312)-663-9415
Mike McAteer	Geographer	Ecology & Environment	(312)663-9415
Tom Kouris	Civil Engineer	Ecology & Environment	(312) 663-9415
Cathy Kouris	Environmental Specialist	Ecology & Environment	(312)663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Mike Bozikowski	Field Project Representative	McCrone Environmental Service 850 Pasquinelli Drive Westmont, IL 60559	(708) 887-7100
Laurie R. Bain	Director of Service Central Region	McCrone Environmental Services 850 Pasquinelli Drive Westmont, IL 60559	(708) 887-7100
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	11:00 AM	Overcast, Temp ≈ 70°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Thomas Crause	Illinois Environmental Protection Agency	217) 782-9848

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Cortney Schmidt	U.S. EPA FIT	Ecology & Environment	312-663-9415	1 9 91 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D076875285

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ■ A SOLID
- ■ B POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☐ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS ~90

03 WASTE CHARACTERISTICS (Check all that apply)

- ■ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ■ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES	Unknown		See History Subsection
OCC	OTHER ORGANIC CHEMICALS	Unknown		2.3 in Narrative
IOC	INORGANIC CHEMICALS	Unknown		Tables 4-1, 4-2
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See table 4-1 AND				
	4-2 of NARRATIVE				
	Also See Section 2.3				

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SSI Data for Lake Salvage Site.

State and FIT file information

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D076875285

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 people — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.2.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.3

01 ■ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 662,197 — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.4.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.5

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 41,387 — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.6

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE 7/11/90) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1/2 (Acres) — 04 NARRATIVE DESCRIPTION

See Table 4-1 and 4-2.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.2

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.6 and Subsection 2.3

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 662,197 — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.6.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076275265

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
TCL Compounds + TAL Analytes Present in ON site soils
Present a Potential hazard to trees on site
Dioxin is of Particular Concern

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)
TCL Compounds + TAL Analytes Present in ON site soils
May Present a potential hazard to those species found on site.
Dioxin is of Particular Concern.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Contamination of the food chain is a possibility due to the Presence of TCL Compounds and TAL Analytes in on site soils.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ■ OBSERVED (DATE 7-11-90) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 41387
04 NARRATIVE DESCRIPTION
Areas of stained Soil were observed on site; And open drums of incineration ash were also observed to be present on site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed or reported

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed or reported.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed or reported

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
FIT's sampling plan included sampling for dioxin and its isomers on 7-11-90
FIT samples revealed the presence of dioxin At this site.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1662,197

IV. COMMENTS
The site fence was damaged And Access was available through Holes in the fence.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
SSI of Lake Salvage Site. 7/11/90
State + FIT File information Region II

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D076875285

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
■ C. AIR	031600EPK	8/11/76	3/16/81	This Air permit for the incinerator was renewed by the IEPA. The site owner withdrew the operating Permit 7/2/87 The IEPA Acknowledged the withdrawl on 6/2/88
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND	≈90	55gal
☐ D. TANK, ABOVE GROUND	1	UNKNOWN
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ■ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE

1 building

06 AREA OF SITE

1/2 ____ (Acres)

07 COMMENTS

The drums used on site were for storage of recoiled Metal from the incinerator, Ash from the incinerator and any scrap metal recieved. FIT is unaware of the use of the Above ground tank.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ■ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The drums that contain incinerator Ash do not contain covers.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS Although the site is fenced and has locked gates, there are 2 holes in the fence.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SSI of Lake Salvage Site.

State & FIT File information.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: IL
02 SITE NUMBER: D076875285

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ■	B ☐
NON-COMMUNITY N/A	C. ☐	D ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A ☐	B ☐	C ■
D ☐	E ☐	F ☐

03 DISTANCE TO SITE

A >3 (mi)
B ______ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
■ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 0

03 DISTANCE TO NEAREST DRINKING WATER WELL: >3 (mi)

04 DEPTH TO GROUNDWATER: ~15 (ft)

05 DIRECTION OF GROUNDWATER FLOW: Easterly

06 DEPTH TO AQUIFER OF CONCERN: ~15 (ft)

07 POTENTIAL YIELD OF AQUIFER: unknown (gpd)

08 SOLE SOURCE AQUIFER: ☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

See Narrative Subsection 5.2 and Appendix E.

10 RECHARGE AREA: ■ YES ☐ NO

COMMENTS: Due to Precipitation

11 DISCHARGE AREA: ■ YES ☐ NO

COMMENTS: Regionally Groundwater discharges into lake Michigan

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Chicago River (North branch)	☐	2.0 (mi)
Chicago River (South branch)	☐	2.5 (mi)
Lake Michigan	☐	4.0 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 41,387 NO. OF PERSONS	B. 165,549 NO. OF PERSONS	C. 372,486 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: Adjacent (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: ≈60,199

04 DISTANCE TO NEAREST OFF-SITE BUILDING: Adjacent (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

See Narrative Section 5 and substation 2.2

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D076875285

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
■ C. AIR	031600EPK	8/11/76	3/16/81	This Air Permit for the incinerator was renewed by the IEPA. The site owner withdrew the operating Permit 7/2/87. The IEPA Acknowledged the withdrawl on 6/2/88
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND	≈90	55 gal
☐ D. TANK, ABOVE GROUND	1	UNKNOWN
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ■ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ■ A. BUILDINGS ON SITE: 1 building

06 AREA OF SITE: 1/2 (Acres)

07 COMMENTS: The drums used on site were for storage of recovered Metal from the incinerator, Ash from the incinerator and any scrap metal recieved. FIT is unaware of the use of the above ground tank.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
- ☐ A. ADEQUATE, SECURE
- ☐ B. MODERATE
- ■ C. INADEQUATE, POOR
- ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.: The drums that contain incinerator Ash do not contain covers.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS: Although the site is fenced and has locked gates, there are 2 holes in the fence.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SSI of Lake Salvage Site.

State & FIT File information.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076875285

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all applicable)

	SURFACE	WELL
COMMUNITY	A. ■	B. ☐
NON-COMMUNITY N/A	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ■
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE
A. >3 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (Also other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ■ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 0
03 DISTANCE TO NEAREST DRINKING WATER WELL: >3 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~15 (ft)	Easterly	~15 (ft)	UNKNOWN (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and relationship to population and buildings)

See Narrative Subsection 5.2 and Appendix E.

10 RECHARGE AREA: ■ YES ☐ NO — COMMENTS: Due to Precipitation

11 DISCHARGE AREA: ■ YES ☐ NO — COMMENTS: Regionally Groundwater discharges into Lake Michigan

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Chicago River (North branch)	☐	2.0 (mi)
Chicago River (South branch)	☐	2.5 (mi)
Lake Michigan	☐	4.0 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 41,387 NO OF PERSONS	B. 165,549 NO OF PERSONS	C. 372,486 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION: Adjacent (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: ≈60,199

04 DISTANCE TO NEAREST OFF-SITE BUILDING: Adjacent (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site (e.g., rural, village, densely populated urban area))

See Narrative Section 5 and substation 2.2

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076875285

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ■ B. $10^{-4} - 10^{-6}$ cm sec ☐ C $10^{-4} - 10^{-3}$ cm sec . D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm sec) ■ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm sec) ☐ D VERY PERMEABLE (Greater than 10^{-2} cm sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
67 (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3.75 (in)	2.43 (in)	0 %	N/A	0 %

09 FLOOD POTENTIAL
SITE IS IN unknown YEAR FLOODPLAIN

10 N/A ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. >3 (mi) OTHER: B. >3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
>3 (mi)
ENDANGERED SPECIES. N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. Adjacent (mi)	B Adjacent (mi)	C >3 (mi)	D >3 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See Appendix A.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI of Lake Salvage site 7/11/90

State : FIT file information.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076875255

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL - organic	3	S-Cubed, San Diego CA	ON file
Soil - inorganic	3	Southwest labs of Oklahoma, Broken Arrow, OK	ON file
OTHER SAS - dioxin samples	7	Amer. Anal. + Tech Services Broken Arrow, OK	ON file

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
H Nu	No readings above background
O_2 Meter	No deviations from background
Explosimeter	No readings above background
Radiation Meter	No readings above background
Hydrogen Cyanide Meter	No readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL | 02 IN CUSTODY OF Ecology + Environment Chicago Office.

03 MAPS ☐ YES ☐ NO | 04 LOCATION OF MAPS Ecology + Environment Inc. 111 W. Jackson Blvd. Chicago IL. 60604

V. OTHER FIELD DATA COLLECTED

None

VI. SOURCES OF INFORMATION

SSI of Lake Salvage Site. 7/11/90

State & FIT file information.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076875285

II. CURRENT OWNER(S)

01 NAME: Alex Simkins | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 6531 N Sacramento Ave | 04 SIC CODE:
05 CITY: Chicago | 06 STATE: IL | 07 ZIP CODE: 60645

01 NAME: Edward Simkins | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 4007 Brittany Court | 04 SIC CODE:
05 CITY: Northbrook | 06 STATE: IL | 07 ZIP CODE: 60062

01 NAME: Irwin Simkins | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): unknown | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

PARENT COMPANY (if applicable)

08 NAME: N/A | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME: Mary Walker Hayes | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): unknown | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: William H. Suchier | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): unknown | 04 SIC CODE:
06 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

IV. REALTY OWNER(S) (if applicable, list most recent first)

01 NAME: N/A | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 03 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

01 NAME: | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): | 04 SIC CODE:
05 CITY: | 06 STATE: | 07 ZIP CODE:

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI of Lake Salvage 7/11/90

State & FIT file information

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D076875285

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Inactive	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
Same as owner(s)	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI of Lake Salvage 7/11/90

State : FIT file information

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D076875285

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
Same as Owner	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State : FIT file information

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D076875285

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D076875285

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ W. GAS CONTROL 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ X. FIRE CONTROL 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ Y. LEACHATE TREATMENT 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ Z. AREA EVACUATED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION: N/A	02 DATE	03 AGENCY
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION: N/A	02 DATE	03 AGENCY

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

State : FIT file information

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D076875285

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION NONE

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State & FIT file information.

EPA FORM 2070-13 (7-81)

APPENDIX C

PIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 1 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

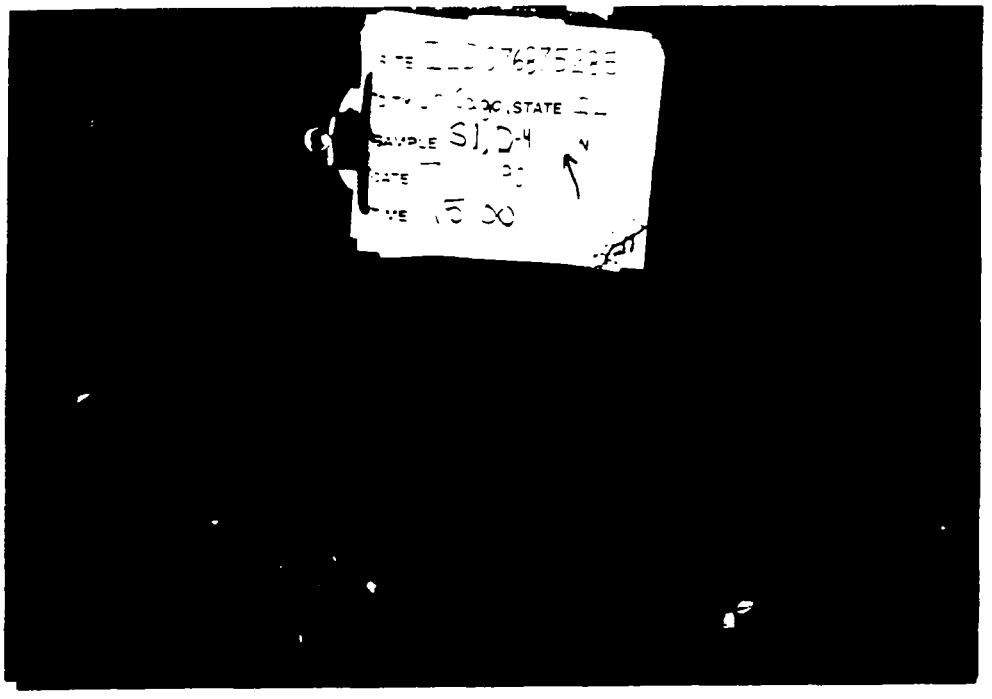
TIME: 1500

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER CONDITIONS: Overcast, Temp. ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-1, D-4



DESCRIPTION: A close-up photo of potential background Samples S-1 and D-4 sampling location.

DATE: 7/11/90

TIME: 1500

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-1, D-4

DESCRIPTION: A perspective photo of potential background Samples S-1 and D-4 Sampling location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 2 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

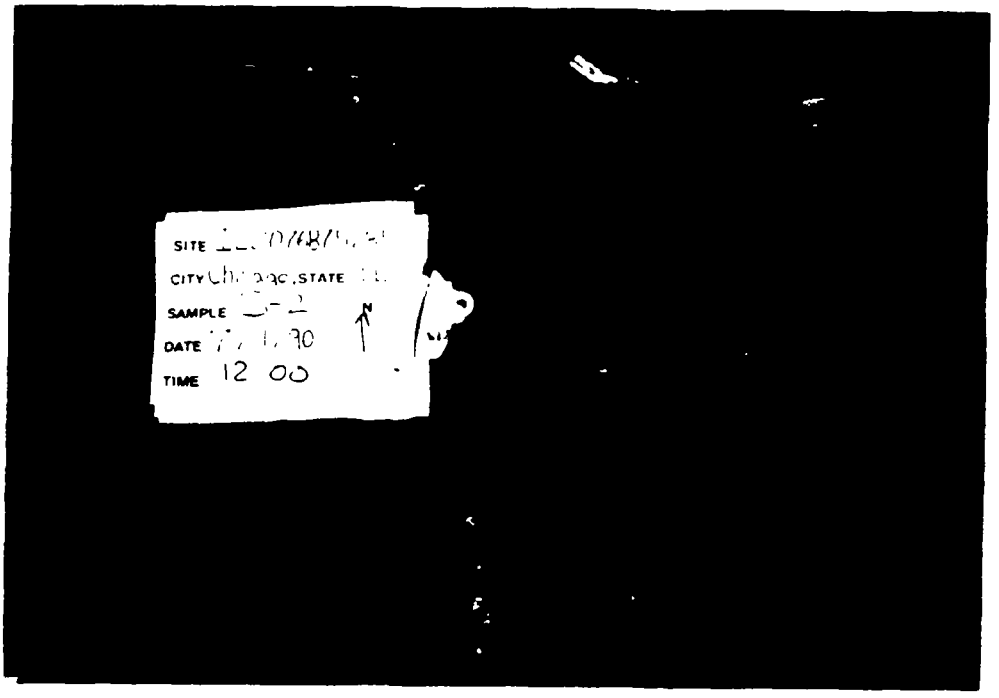
TIME: 1200

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Overcast, Temp ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-2



DESCRIPTION: A close-up photo of R.A.S. soil sample location S-2.

DATE: 7/11/90

TIME: 1200

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Overcast, Temp. ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-2

DESCRIPTION: A perspective photo of R.A.S. soil sample location S-2.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 3 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

TIME: 1240

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Overcast, Temp ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-3, D-3

DESCRIPTION: A close-up photo of R.A.S. soil sample S-3, and S.A.S. soil sample D-3 sampling location.

DATE: 7/11/90

TIME: 1240

DIRECTION OF PHOTOGRAPH: Northwest

WEATHER CONDITIONS: Overcast, Temp. ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): S-3, D-3

DESCRIPTION: A perspective photo of R.A.S. soil sample S-3, and S.A.S. soil sample D-3 sampling location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 4 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

TIME: 1200

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Overcast, Temp ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): D-1

DESCRIPTION: A close-up photo of S.A.S. soil sample location D-1

DATE: 7/11/90

TIME: 1200

DIRECTION OF PHOTOGRAPH: Southwest

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): D-1

DESCRIPTION: A perspective photo of S.A.S. soil Sample location D-1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 5 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

TIME: 1215

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER CONDITIONS: Overcast, Temp. ≈ 70°F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): D-2

DESCRIPTION: A close-up photo of S.A.S. soil Sample location D-2.

DATE: 7/11/90

TIME: 1215

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER CONDITIONS: Overcast, Temp ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): D-2

DESCRIPTION: A perspective photo of S.A.S. soil Sample location D-2.

PIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 6 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

TIME: 1200

DIRECTION OF PHOTOGRAPH: East

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): N/A

DESCRIPTION: Fence bordering east side of site ~~is~~ taken again showing hole in fence

DATE: 7/11/90

TIME: 1200

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): N/A

DESCRIPTION: Fence on south side of site showing hole in fence

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 7 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90

TIME: 1

DIRECTION OF PHOTOGRAPH: West North West

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): N/A

DESCRIPTION: A photo of the site sign. Note the close proximity of the Lake street "EL" Train, to the site.

DATE: 7/11/90

TIME: 1150

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F

PHOTOGRAPHED BY: Cortney Schmidt

SAMPLE ID (if applicable): N/A

DESCRIPTION: drums and above ground tank in the west court yard.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LAKE SALVAGE PAGE 8 OF 8

U.S. EPA ID: ILD076875285 TDD: F05-8901-015 PAN: FIL0673SB

DATE: 7/11/90 TIME: 1305 DIRECTION OF PHOTOGRAPH: Left to Right East to South PHOTOGRAPHED BY: Cortney Schmidt

WEATHER CONDITIONS: Overcast, Temp. ≈ 70° F SAMPLE ID (if applicable): N/A

DESCRIPTION: Perspective view of Eastern courtyard area. To the south, view of the incinerator and smoke stack. To the east, 55 gal. drums filled with ash and debris from incinerators.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND

TARGET ANALYTE LIST

QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES

CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM

TARGET ANALYTE LIST (TAL)

INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits Water (µg/L)	Detection Limits Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

Table D

SAS DIOXIN DETECTION LIMITS

Parameter	Detection Limit
2378 TCDD/TCDF	5 (ng/kg) ppt
Total TCDD/TCDF	5
Total Penta TCDD/TCDF	20
Total Hexa TCDD/TCDF	20
Total Hepta TCDD/TCDF	20
OCDD/OCDF	50

APPENDIX B

BORING LOGS OF THE AREA OF THE SITE

BORING LOG 1

(8811—50M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
MH-2			
Misc Clay, brick, sand, concrete, wood & cinder fill, occ silt & gr			6.0
Very tough br & gr silty CLAY, occ sand, tr gr			10.0
Tough gr very silty CLAY, occ sand, tr gr			13.0
Dense gr SILT, some clay, tr sand & gravel			15.5
Hard gr clayey SILT, occ sand, tr gravel			18.0
Dense gr SILT, some sand seams, occ sand, tr clay & gravel			20.5
Med gr f-m SAND, occ silt, tr clay			25.0
Dense gr SILT, occ clay, tr sand & gravel			28.0
Dense gr SILT, some clay & sand, tr sand seams & gravel			36.0
Dense gr f SAND, occ silt, tr clay & gravel			38.0
Hard gr clayey SILT, some sand tr gravel			40.5
Hard gr very silty CLAY, occ silt seams & sand, tr gravel			43.0
Very tough gr very silty CLAY, occ silt seams, tr sand & gr			45.5
Dense gr sandy SILT, occ clay, tr gravel & LS frags			61.0
Dense gr silty SAND, occ gravel & LS frags, tr clay			64.5
LIMESTONE ROCK, FRAGMENTS & BOULDERS			66.5
NO ENVELOPE. Typed by Warrenville			

COMPANY City of Chicago DPW
FARM Parent Child Center
DATE DRILLED 10/73
AUTHORITY Company
ELEVATION 600' G.L.
LOCATION SW, SE, SE
COUNTY COOK

NO. MH-2
COUNTY NO. 26577

11-39N-13E

(8811—50M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
LH-4			
Blk org silty CLAY FILL & dark brownish gry TOPSOIL, tr sand & pebb			5.0
Tough brn & gry silty CLAY, tr sand pebb & roots			11.0
Soft gry silty CLAY, tr sand & peb			16.0
Very tough gry silty CLAY, tr sand & peb			23.0
Hard gry very silty CLAY, occ sand & peb			26.0
Very tough gry silty CLAY, occ sand & pebb			33.0
Tough gry silty CLAY, tr sand & peb			34.5
Dense gry f-c silty SAND, occ gravel tr clay			36.0
Hard gry clayey SILT, occ sand & peb			43.0
Hard gry very silty CLAY, tr sand & peb			46.0
Hard gry silty CLAY, tr sand, peb & silt seams			56.0
Dense gry SAND, some silt & gravel			58.0
LIMESTONE			67.0
Typed by Warrenville			
Logs of 6 borings filed at NE Ill Office City of Chicago Dept. of Pub. Wks., Bur. of Eng.. NO ENVELOPE			

COMPANY City of Chicago DPW
FARM Lake St. C.T.A.
DATE DRILLED 7/69
AUTHORITY Company
ELEVATION 601' G.L.
LOCATION NE, SW, SE
COUNTY COOK

NO LH-4
COUNTY NO 26576

11-39N-13E

BORING LOG 2 (8811—30M—6-69)

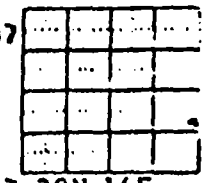
ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
CATS-37			
Loose blk & red cinder & brick FILL			3.0
Loose brn sandy SILT FILL, tr cinders			5.5
Loose gry silty f SAND, tr clay			7.5
Very tough gry silty CLAY, tr sand, peb & roots			12.0
Tough gry very silty CLAY, occ sand & peb			15.0
Stiff gry silty CLAY, occ silt seams, tr sand & peb			19.0
Soft gry silty CLAY, tr sand, peb & silt seams			30.5
Stiff gry very silty CLAY, tr sand & peb			33.0
Stiff gry silty CLAY, tr sand, peb & silt seams			39.0
Tough gry silty CLAY, tr sand & peb			40.5

Typed by Warrenville

Logs of 41 borings filed at NE Ill Office
City of Chgo. Dept. of Pub. Wks., Bur. of Eng.
NO ENVELOPE

COMPANY City of Chgo. Dept. of Pub. Wks.
FARM Cent. Area Transit Study NO. CATS-37
DATE DRILLED 12/67 COUNTY NO. 26591
AUTHORITY Company
ELEVATION 596.5' G.L.
LOCATION SE, NE, SE



7-39N-14E

(8811—60M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
1			
Concrete walk			0.2
Soft dk gr silty CLAY, occ c-f sand, tr m-f gravel			3.8
Very tough yel br & gr silty CLAY, occ c-f sand, tr f gravel			9.0
Hard yel br clayey SILT, occ c-f sand, tr m-f gravel			12.8
Very dense gr SILT and m-f GRAVEL occ c-f sand			14.8
HARDPAN gr clayey SILT, occ c-f sand, tr f gravel			27.8
Dense gr m-f SAND, occ silt			29.0
Very dense SILT, tr f sand			31.5
Broken LIMESTONE noted			31.5
Broken LIMESTONE, and layers of sandy SILT			36.5
Dolomitic LIMESTONE			54.5
Typed by Warrenville			
Logs of 4 borings filed at NE Ill Office City of Chicago Dept. of Pub. Wks., Bur. of Eng. NO ENVELOPE			

COMPANY City of Chicago DPW
FARM CTA-Lake & Pulaski NO. 1
DATE DRILLED 11/65 COUNTY NO. 26575
AUTHORITY Company
ELEVATION 603.3' G.L.
LOCATION SW, NW, SW

BORING LOG 3

(8811—60M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

ENGINEERING BORING	Thickness	Top	Bottom
213			
Concrete			0.
Brn med sand, tr silt fill			9.
Wood			10.
Loose gry fine sand tr silt			16.
Very soft gry silty clay, tr sand & sm gravel			33.
Soft gry silty clay, tr sand & sm gravel			49
Med gry inorganic silt			50
Tough gry silty clay, tr sand & sm gravel			62
Very tough gry clayey silt, some sand & sm gravel			73
Tough gry silty clay, tr sand & sm gravel			76
Stiff gry clayey silt, tr sand & sm gravel, tr silt partings			78
Dense gry inorganic silt			80
Very dense gry silty f sand & sm gravel			96
Hard gry clayey silt w/sand & sm gravel			10:
Very dense gry f-c silty sand, w/ sm limestone fragments			11(
Typed by Warrenville			
Logs of 22 borings filed at NE Ill Office City of Chicago Dept. of Pub. Wks., Bur. of Eng. NO ENVELOPE			

COMPANY City of Chicago DPW
FARM Illinois Center Plaza NO. 213
DATE DRILLED COUNTY NO. 26574
AUTHORITY Company
ELEVATION 598.5' G.L.
LOCATION SW, NE, SW
COUNTY COOK

10-3[illegible]-1